

CLAIMS**WHAT IS CLAIMED IS:**

1 1. An oscillating wheel assembly configured for attachment to a wheel
2 having a plurality of wheel lugs, said oscillating wheel assembly
3 comprising:

4 a means for mounting the assembly to two or more of the plurality
5 of wheel lugs;

6 a means for facilitating rotational motion of an attached structure,
7 said means for facilitating rotational motion being operably coupled to the
8 means for mounting;

9 an oscillator operably coupled to the means for facilitating
10 rotational motion.

1 2. An oscillating wheel assembly according to claim 1, wherein the means
2 for mounting includes an accessory mount, said accessory mount having a
3 plurality of apertures near the periphery of the mount, said apertures being
4 sized and configured to receive the plurality of wheel lugs.

1 3. An oscillating wheel assembly according to claim 1, wherein the means

2 for mounting includes an accessory mount, a universal mount, said
3 universal accessory mount having a plurality of apertures configured to
4 engage two or more wheel lugs of passenger vehicle wheels having
5 different lug patterns.

1 4. An oscillating wheel assembly according to claim 1, wherein the means
2 for facilitating rotational motion includes a bearing assembly operably
3 coupled to the means for mounting.

1 5. An oscillating wheel assembly according to claim 1, wherein the
2 oscillator includes a decorative spinner having a plurality of spokes, said
3 oscillator having a diameter less than the diameter of the wheel.

1 6. An oscillating wheel assembly according to claim 1, further comprising
2 a plurality of weights and means for attaching said plurality of weights to
3 the oscillator.

1 7. An oscillating wheel assembly according to claim 1, further
2 comprising:
3 a flange rotatably coupled to the means for facilitating rotational
4 motion, and

5 a plurality of oscillator mounting bolts, said flange including a
6 plurality of apertures,

7 said oscillator including a plurality of apertures sized and aligned
8 to correspond with the plurality of apertures of the flange, and configured
9 to receive said plurality of oscillator mounting bolts, said oscillator being
10 attachable to said flange using said oscillator mounting bolts.

1 8. An oscillating wheel assembly according to claim 7, wherein the
2 plurality of apertures in said flange are threaded and configured for
3 threadedly engaging said plurality of oscillator mounting bolts.

1 9. An oscillating wheel assembly according to claim 8, further comprising
2 a cap, said cap being attachable to the oscillator and configured to conceal
3 said apertures in said oscillator and said plurality of bolts received in said
4 apertures in said oscillator.

1 10. An oscillating wheel assembly according to claim 4, further
2 comprising a bearing housing coupled to said means for mounting, said
3 bearing housing including a cavity for receiving said bearing assembly.

1 11. An oscillating wheel assembly according to claim 10, further

2 comprising:

3 an axle bolt, said axle bolt having a head and a threaded end, and

4 an axle nut, said axle nut being configured to threadedly engage

5 the threaded end of the axle bolt,

6 wherein said means for mounting has a central aperture configured

7 to receive said axle bolt, said bearing assembly has a central aperture in

8 alignment with said central aperture of the means for mounting and

9 configured to receive said axle bolt, said bearing housing has a central

10 aperture configured to receive said axle bolt as received within said

11 bearing assembly, and said axle bolt and axle nut securing said bearing

12 assembly and bearing housing to said means for mounting.

1 12. An oscillating wheel assembly according to claim 11, wherein said

2 bearing housing further includes a plurality of apertures for receiving bolts

3 for mounting said oscillator.

1 13. An oscillating wheel assembly configured for attachment to a wheel

2 having a plurality of wheel lugs, said oscillating wheel assembly

3 comprising:

4 a means for mounting the assembly to two or more of the plurality

5 of wheel lugs;

6 a means for facilitating rotational motion of an attached structure,
7 said means for facilitating rotational motion being operably coupled to the
8 means for mounting;

9 an oscillator operably coupled to the means for facilitating
10 rotational motion;

11 wherein the means for mounting includes an accessory mount, said
12 accessory mount having a plurality of apertures near the periphery of the
13 mount, said apertures being sized and configured to receive a plurality of
14 wheel lugs for a plurality of different lug patterns; and

15 the means for facilitating rotational motion includes a bearing
16 assembly operably coupled to the means for mounting.

1 14. An oscillating wheel assembly according to claim 13, wherein the
2 oscillator includes a decorative spinner having a plurality of spokes, said
3 oscillator having a diameter less than the diameter of the wheel.

1 15. An oscillating wheel assembly according to claim 14, further
2 comprising a plurality of weights and means for attaching said plurality of
3 weights to the oscillator.

1 16. An oscillating wheel assembly according to claim 15, further

2 comprising:

3 a flange rotatably coupled to the means for facilitating rotational

4 motion, and

5 a plurality of oscillator mounting bolts, said flange including a
6 plurality of apertures,

7 said oscillator including a plurality of apertures sized and aligned
8 to correspond with the plurality of apertures of the flange, and configured
9 to receive said plurality of oscillator mounting bolts, said oscillator being
10 attachable to said flange using said oscillator mounting bolts.

1 17. An oscillating wheel assembly according to claim 16, wherein the
2 plurality of apertures in said flange are threaded and configured for
3 threadedly engaging said plurality of oscillator mounting bolts.

1 18. An oscillating wheel assembly according to claim 17, further
2 comprising a cap, said cap being attachable to the oscillator and
3 configured to conceal said apertures in said oscillator and said plurality of
4 bolts received in said apertures in said oscillator.

1 19. An oscillating wheel assembly according to claim 14, further
2 comprising a bearing housing coupled to said means for mounting, said

3 bearing housing including a cavity for receiving said bearing assembly.

1 20. An oscillating wheel assembly according to claim 19, further
2 comprising:

3 an axle bolt, said axle bolt having a head and a threaded end, and
4 an axle nut, said axle nut being configured to threadedly engage
5 the threaded end of the axle bolt,
6 wherein said means for mounting has a central aperture configured
7 to receive said axle bolt, said bearing assembly has a central aperture in
8 alignment with said central aperture of the means for mounting and
9 configured to receive said axle bolt, said bearing housing has a central
10 aperture configured to receive said axle bolt as received within said
11 bearing assembly, and said axle bolt and axle nut securing said bearing
12 assembly and bearing housing to said means for mounting.

1 21. An oscillating wheel assembly according to claim 20, wherein said
2 bearing housing further includes a plurality of apertures for receiving bolts
3 for mounting said oscillator.